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Differential hydraulic circuit for feed and locking up of controlled double acting jack - has oil contained in piston rod side chamber of jack is used to augment flow of oil to chamber behind piston thus reducing size of power pack

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Patent Family

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Patent Details

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Abstract:

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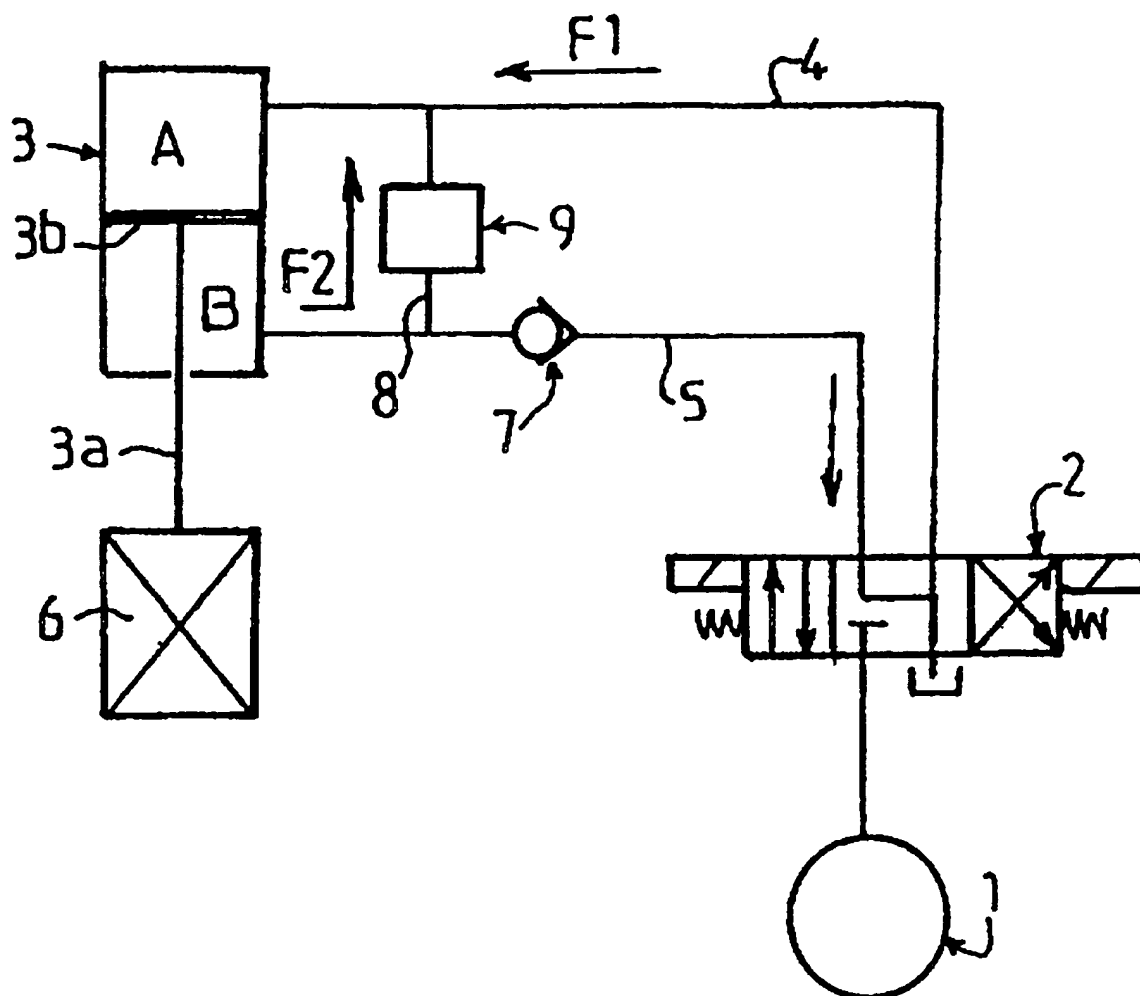
The differential hydraulic system controls a jack (3). A hydraulic power source (1) supplying a fluid. A distribution valve (2) feeds the jack via a supply feed (4) and a return feed (5). A compact feed differential unit (9) is interposed between the feeds. This unit is actuated in view of the extension of the rod (3a) of the jack. The unit is arranged to directly transfer oil contained in the chamber (B) of the jack towards the chamber (A) of the jack.

The chamber (B) is situated on the rod side, whilst the chamber (A) is situated on the opposite side of the piston (3b) of the jack. This is done without returning to the distribution valve and thence to the power source thus reducing the power of the installation. An accumulator (31) can be installed in the circuit to reduce any shocks experienced by the double acting jack.

USE - For raising or lowering guide rollers into single guide rail for urban road rail transport vehicle

ADVANTAGE - The fluid expelled from the piston rod side of the jack is fed back to the other chamber in the jack. This augments the flow from the power source and enables it to be reduced in size so that it can easily be fitted in the under chassis of the vehicle.

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